

CONTENTS VOLUME 41, 1987

Research Papers

- Airborne determination of regional water use efficiency and evapotranspiration: present capabilities and initial field tests
P.H. Schuepp, L.B. Austin (Anne-de-Bellevue, Quebec, Canada), R.L. Desjardins, J.I. MacPherson and J. Boisvert (Ottawa, Ontario, Canada). 1
- An automatic recording Class A pan evapo-pluviometer for long-term unattended operation
W.C. Boughton and R.J. McPhee (Nathan, Queensland, Australia). 21
- Modelling corn yields from soil moisture estimates: description, sensitivity analysis and validation
R.E. Place and D.M. Brown (Guelph, Ontario, Canada). 31
- Accuracy of the Penman–Monteith equation adjusted for atmospheric stability
W.H. Van Zyl and J.M. De Jager (Bloemfontein, S. Africa). 57
- Estimating evapotranspiration from wheat using weather measurements and carborundum or Piché evaporimeter
W.H. Van Zyl and J.M. De Jager (Bloemfontein, S. Africa). 65
- Relative role of stomatal and aerodynamic resistances in transpiration of a tomato crop in a CO₂-enriched greenhouse
Y.A. Shaer and C.H.M. Van Bavel (College Station, TX, U.S.A.). 77
- Estimating moisture availability for rice cultivation in Mwea, Kenya
J.E. Lewis and I.J. Ndolo (Montreal, Quebec, Canada). 87
- Radiative transfer in an anisotropically scattering vegetation medium
R.B. Myneni, G. Asrar, R.B. Burnett and E.T. Kanemasu (Manhattan, KS, U.S.A.). 97
- Effects of climatic variability and possible climatic change on reliability of wheat cropping — a modelling approach
G.L. Hammer (Brisbane, Queensland, Australia), D.R. Woodruff (Toowoomba, Queensland, Australia) and J.B. Robinson (Wollongbar, N.S.W., Australia). 123
- Modelling the plant canopy micrometeorology with higher-order closure principles
T.P. Meyers (Oak Ridge, TN, U.S.A.) and K.T. Paw U (Davis, CA, U.S.A.). 143

Short communication

- Estimation day-degrees from daily maximum–minimum temperatures: a comparison of techniques for a soil-dwelling insect
P.G. Allsopp (Emerald, Queensland, Australia) and D.G. Butler (Toowoomba, Queensland, Australia). 165

Announcement. 173

Guide for Authors 175

Research Papers

- Simplified estimate of leaf area index from transmittance of the sun's beam
A.R.G. Lang (Canberra, A.C.T., Australia). 179
- Within-canopy temperature patterns of sorghum at two row spacings
E.A. Graser, S.B. Verma and N.J. Rosenberg (Lincoln, NE, U.S.A.). 187
- Nitrogen nutrition and wheat growth in relation to absorbed solar radiation
C.F. Green (Loughborough, Gt. Britain). 207
- Surface conductance to evaporation from a wooded swamp
D.S. Munro (Mississauga, Ont., Canada). 249

Preseason precipitation probabilities as an aid to corn planting decisions R.E. Neild, D.A. Wilhite and K.G. Hubbard (Lincoln, NE, U.S.A.)	259
Maximum wetness duration for water drops on leaves in the field A. Barr and T.J. Gillespie (Guelph, Ont., Canada)	267
A simple non-weighing lysimeter installation with rain shelter R.P. Tripathi, H.S. Kushwaha and A. Agrawal (Nainital, India)	275
A semi-empirical model for calculating evaporation and transpiration from wetland rice J.R. Jensen (Bangkok, Thailand) and Md.M. Rahman (Dhaka, Bangladesh)	289
The influence of installation practices on evaporation from Symon's tank and American Class A-pan evaporimeters H.H. Bosman (Pretoria, Republic of South Africa)	307
Intensified soil solarization with closed greenhouses: numerical and experimental studies Y. Mahrer, R. Avissar, O. Naot and J. Katan (Rehovot, Israel)	325
 <i>Short Report</i>	
Short Report of the International Workshop on the Application of Meteorology to Agroforestry Systems Planning and Management, Nairobi, February 1987 C.J. Stigter (Wageningen, The Netherlands), T. Darnhofer (Nairobi, Kenya) and D. Rijks (Geneva, Switzerland)	335
 <i>Book Reviews</i>	
<i>CERES-Maize: A Simulation Model of Maize Growth and Development</i> , by C.A. Jones and J.R. Kiniry (Editors) — D.M. Brown.	339
<i>Hydrologic Applications of Space Technology</i> , by I. Johnson (Editor) — M.N. Hough . . .	340
<i>Soil Physics with BASIC — Transport Models for Soil-Plant Systems</i> , by G.S. Campbell — K.L. Bristow	341
<i>World Climatic Systems</i> , by J.G. Lockwood — C.J. Stigter	342
 <i>Erratum</i>	345
 <i>Contents of Volume 41 (1987)</i>	347